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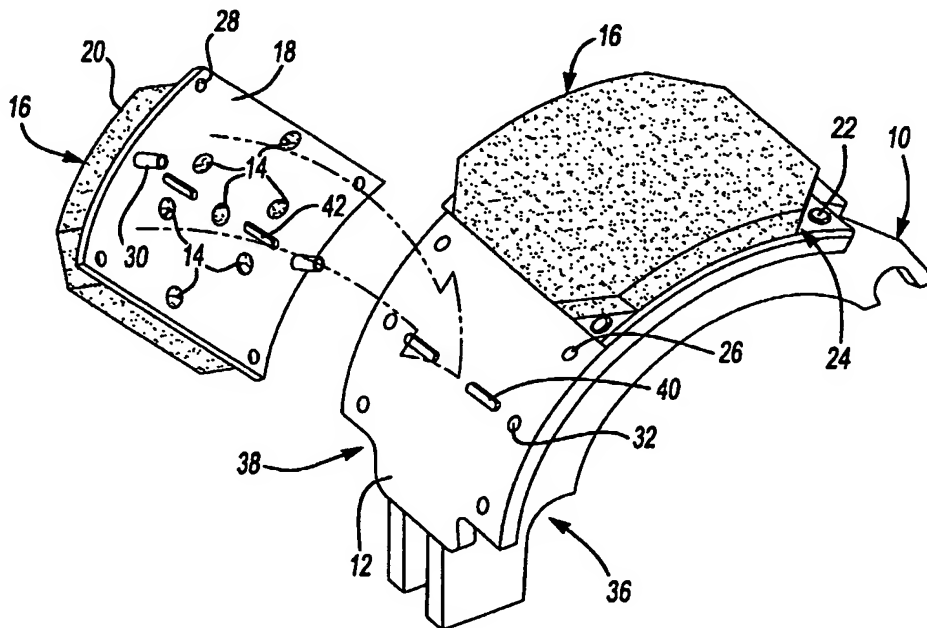
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- (71) Applicant: **BERI, Michael** [CA/CA]; 31 Codsell Avenue, North York, Ontario M3H 3V7 (CA).
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- Declaration under Rule 4.17:**
— *of inventorship (Rule 4.17(iv)) for US only*

[Continued on next page]

(54) Title: BRAKE SHOE AND BRAKE LINING BLOCKS WITH KEYED CONNECTION



(57) Abstract: A brake shoe assembly comprising a brake shoe to which brake plates are assembled. The brake shoe and brake plates are connected by a key or tang in one to a key way or slot in the other. Preamsembled fasteners are provided on the brake plates to facilitate alignment of the brake plates with the brake shoe so that the key is received in the slot. Fasteners may be provided in four open corner areas so that the brake plate may be secured to the brake shoe with metal-to-metal contact where the brake plate is secured to the brake shoe. A brake shoe having a cylindrical outer surface or an outer surface defined by a plurality of flats is provided.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2004/003329

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16D 69/04, F16D65/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F16D 69/00, F16D 69/04, F16D 65/08, F16D 65/02,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CANADIAN PATENT DATABASE

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
DELPHION/DERWENT, ESPACENET

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No(s). |
|-----------|--|---------------------------|
| Y | US5,255,762 (BERI) 1993.10.26 | 1-6, 17-30 |
| Y | US6,520,301 (YOUNG) 2003.02.18 | 1-6, 13-21, 27-29, 37, 38 |
| Y | US5,975,255 (MONROE et Al.) 1999.11.02 | 7-12, 22-35, 37, 39 |
| Y | US2,164,015 (KATELEY) 1939.06.27 | 31-35 |
| Y | US1,682,319 (BLUHM) 1928.08.28 | 7-16 |
| X | GB 2,087,995 A1 (MORITA et. Al.) 1982.06.03 | 36 |
| Y | | 37-39 |

[] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "B" earlier application or patent but published on or after the international filing date
 "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
01 February 2005 (01-02-2005)

Date of mailing of the international search report
18 March 2005 (18-03-2005)

Name and mailing address of the ISA/CA
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Facsimile No: 001(819)953-2476

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/IB2004/003329**Box No. II Observations where certain claims were found unsearchable (Continuation of Item 2 of the first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☐ Claim Nos. :
because they relate to subject matter not required to be searched by this Authority, namely :
2. ☐ Claim Nos. :
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
3. ☐ Claims Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

GROUP A: Claims 1-35 and 37-40 are directed to a brake shoe assembly comprising a brake shoe and a brake plates wherein said brake shoe and said brake plate includes one of either a key or a slot.

GROUP B: Claim 36 is directed to a brake shoe assembly comprising a brake shoe and multiple brake plates secured to the brake shoe via a plurality of fasteners.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

Remark on Protest☐
☐

The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/IB2004/003329

| Patent Document Cited in Search Report | Publication Date | Patent Family Member(s) | Publication Date |
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